WHAT IS CONNECT?

And how you will benefit

At Hubbell Power Systems, Inc. we are dedicated to sharing our ideas, knowledge and resources. RFL™ products have proudly served the power utility industry since 1922. Today, we are inviting you to CONNECT™. Take advantage of the expertise and industry knowledge in a powerful learning center that was created just for you – our valued customer.

All CONNECT seminars and training topics are designed for power utilities and focus on material and issues relevant to you. Featured topics include networking, communications, protection and security.

CONNECT is free to our customers. To see our latest training schedule, view a course syllabus or register, visit: rflelect.com/training.

Course Modules:
Each module will require 30-40 minutes to complete. The modules are designed for presentation via on-line audio/video conference. Due to the time constraint, they are not designed to be interactive. They will be recorded and used for on-demand viewing from the RFL™ brand website.

To register, visit www.rflelect.com/Training

FUNDAMENTALS FOR THE ELECTRIC POWER UTILITIES - PROTECTION

Course Modules:
Each module will require 30-40 minutes to complete. The modules are designed for presentation via on-line audio/video conference. Due to the time constraint, they are not designed to be interactive. They will be recorded and used for on-demand viewing from the HPS/RFL Brand web site.

TRAINING MODULE	OVERVIEW	DATE	DURATION	PRESENTER	WHO SHOULD ATTEND	HOW YOU WILL BENEFIT
NEW MODULE Module 4: Power Line Carrier – Hybrids	This course will provide the fundamentals of Power Line Carrier Hybrids used for pilot protection. Introduce PLC hybrids – what types, how do they work, how are they used, do's and don'ts and troubleshooting tips.	04/18/2019	30 minutes 11 a.m. EST	Brian Dob	Individuals with a role in Power Line Carrier and line protection from either the system protection or communications side of the business. This course is geared towards those who are new to Power Line Carrier and line protection.	You will learn the basic principles related to Power Line Carrier Hybrids and the best practices for utilizing them in PLC systems. Gain confidence in your understanding of these often mysterious and misunderstood PLC components.
NEW MODULE Module 1: IEC-61850 Proxy Gateway	This course will introduce the IEC-61850 Proxy Gateway and its role in substation-to-substation communications for protection applications. This course will cover the main features and application considerations of a proxy gateway, along with real-world examples.	05/16/2019	30 minutes 11 a.m. EST	Brian Dob	Individuals with a role in designing and implementing relay protection systems requiring station-to-station communications and utilizing IEC-61850. This course is geared towards those who are both new to IEC-61850 and those with a basic understanding.	You will learn common industry terms related to IEC-61850 and proxy gateways, including concepts and methods which are critical to design and implementation. Understanding the basic principles of a proxy gateway will provide beneficial related job knowledge.

CYBER SECURITY AND NERC CIP TRAINING FOR THE ELECTRIC POWER INDUSTRY

The RFL™ Cyber Security Training Series provides a closer look at the hot topics around cyber security, supply chain risk management, vulnerability assessments and NERC CIP Compliance. The courses were designed to help you understand basic cyber security concepts used in the electric power industry.

Course Modules:
Each module will require 30-40 minutes to complete. The modules are designed for presentation via on-line audio/video conference. Due to the time constraint, they are not designed to be interactive. They will be recorded and used for on-demand viewing from the RFL™ brand web site.

TRAINING MODULE	OVERVIEW	DATE	DURATION	PRESENTER	WHO SHOULD ATTEND	HOW YOU WILL BENEFIT
NEW MODULE Supply Chain Security Update	Update on the new (CIP-013) supply chain security requirements for regulated entities and the impact on vendors involved in the supply chain.	04/11/19	30 minutes 11 a.m. EST	Karl Perman	Individuals with a role in NERC CIP such as compliance, security, engineers and supply chain professionals.	You will learn about the new requirements for those involved in the supply chain of critical systems to the electric power industry.
NEW MODULE Vulnerability Assessments for Protective Equipment	This module will focus on the key activities and purposes of having a vulnerability assessment program for protective equipment.	05/02/19	30 minutes 11 a.m. EST	Karl Perman	Individuals with a role in NERC CIP such as compliance, security and engineers.	You will learn about the benefits of having a vulnerability assessment program.
NEW MODULE Risk-Based Approach to Cyber Security	This module will focus on having a risk-based approach to cyber security including sample methodology and purpose.	06/27/19	30 minutes 11 a.m. EST	Karl Perman	Individuals with a role in cybersecurity or NERC CIP such as compliance, security and engineers.	You will learn about the purpose of having a risk-based approach to cybersecurity.

To register, visit www.rflelect.com/Training

FUNDAMENTALS FOR THE ELECTRIC POWER INDUSTRY: COMMUNICATIONS

SERVICE ORIENTED NETWORK FOR UTILITIES (SONU)- INTRODUCTION & DEEP DIVE MODULES (1 & 2)

Introduction (Module 1):
This topic is divided into two modules. Module 1 will provide an introduction on how a Service Oriented Network Architecture can be used by Power Utilities as they migrate their communications infrastructure to a seemingly-inevitable Packet Network. We'll cover the basics of Carrier Ethernet and MPLS-TP, and how they play a role in a SONU using MEF defined services.

Deep Dive (Module 2):
This module continues where the "Service Oriented Network for Utilities: Introduction" (Module 1) left off. It will deep-dive into the different MEF-defined services: EPL, EVPL, EP-LAN, EVP-LAN, EP-TREE and EVP-TREE. Understand how each of these services differentiate. What's "service multiplexing"? What's a "C-Tag" or an "S-Tag"? How to converge different LAN segments with a SONU?

Course Modules:
Each module will require 30-40 minutes to complete. The modules are designed for presentation via on-line audio/video conference. Due to the time constraint, they are not designed to be interactive. They will be recorded and used for on-demand viewing from the RFL™ brand web site.

TRAINING MODULE	OVERVIEW	DATE	DURATION	PRESENTER	WHO SHOULD ATTEND	HOW YOU WILL BENEFIT
Module 1: Service Oriented Network for Utilities (SONU)	Introduction on how a Service Oriented Network Architecture can be used by Power Utilities as they migrate their communications infrastructure to a seemingly-inevitable Packet Network. We'll cover the basics of Carrier Ethernet and MPLS-TP, and how they play a role in a SONU using MEF defined services.	05/23/19	30 Minutes 11 a.m. EST	Marko Deona	Individuals who have a role in telecommunications for Power Utilities, those who are new to the Service Oriented Network concept, and those who understand the basics of IP/Ethernet but are still a bit foreign to Virtual Networking, Carrier Ethernet and MPLS-TP.	You will gain an understanding of what a Service Oriented Network is all about. Learn how Carrier Ethernet or MPLS-TP compares to standard MPLS. Understand how a network infrastructure can be designed practically using services for each application.
Module 2: Service Oriented Network for Utilities **Pre-requisite course:** Service Oriented Network for Utilities: Introduction (Module 1) (available to download in an MP4 format from www.rflelect.com/training/training archives).	Deep-dive into the different MEF-defined services: EPL, EVPL, EP-LAN, EVP-LAN, EP-TREE and EVP-TREE. Understand how each of these services differentiate. What's "service multiplexing"? What's a "C-Tag" or an "S-Tag"? How to converge different LAN segments with a SONU?	06/06/19	30 minutes 11 a.m. EST	Marko Deona	Individuals who have a role in telecommunications for the Power Utilities, those who have attended the pre-requisite course (or have downloaded the pre-recorded session from www.rflelect.com/training/training archives) and those who understand the basics of IP/Ethernet, but are still a bit foreign to Virtual Networking, Carrier Ethernet and MPLS-TP.	You will gain understanding of how each MEF defined services differentiate, and how these common terms play a practical role in knowing exactly the type of convergence your application will be getting. Understand how to apply service multiplexing and get the most out of your fiber. Gain insight on how IT and OT can be converged through a SONU architecture.

To register, visit www.rflelect.com/Training

To register, visit www.rflelect.com/Training

HUBBELL | RFL

hubbellpowersystems.com